

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/094587 A1

(51) International Patent Classification⁷: **A01N 63/00**,
A61K 48/00

(74) Agent: **REN, Zhibin**; Quarles & Brady LLP, 411 E. Wisconsin Avenue, Milwaukee, WI 53202 (US).

(21) International Application Number:
PCT/US2005/010291

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 28 March 2005 (28.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/557,238 29 March 2004 (29.03.2004) US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH** [US/US]; 200 First Street SE, Rochester, MN 55905 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MCGREGOR, Christopher, G., A.** [US/US]; 612 Tenth Avenue SW, Rochester, MN 55902 (US). **BYRNE, Guerard, W.** [US/US]; 5506 Leslie Lane SW, Rochester, MN 55902 (US). **DAVIES, William, R.** [GB/GB]; 21 Cedar Close, Grafham, Cambridgeshire PE28 0DZ (GB). **LOGAN, John, S.** [GB/US]; 1285 Old York Road, Robbinsville, NY 08691 (US).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GENETICALLY MODIFIED HEART VALVE XENOGRAFTS

(57) Abstract: The invention relates to heart valve xenografts from transgenic pigs having a disruption of an α 1-3 galactosyl transferase nucleic acid sequence and use of the xenografts for treating a patient.



WO 2005/094587 A1